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Sequence Listing could not be accepted due to errors.

See attached Validation Report.

If you need help call the Patent Electronic Business Center at (866) 217-9197 (toll free).

Reviewer: Durreshwar Anjum

Timestamp: [year=2008; month=11; day=5; hr=14; min=13; sec=59; ms=537;]

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Reviewer Comments:

<210> SEQ ID NO.: 1

<211> 60.000

<212> polynucleotide

<213> human

<220>

<221> gene

<223> rLDL

<400>

Numeric identifier <212> represents what type of sequence it is for eg: DNA/RNA or PRT. Do not insert alpha-numeric headings in section <210>. Missing seq id number as numeric identifier <400>. Please check for similar errors in subsequent sequences.

Numeric identifier <213> can only be one of three choices, "Scientific name, i.e. Genus/species, Unknown or Artificial Sequence." The first letter of the scientific name should be in uppercase.

gcgtcagctc ttcaccggag acccaaatac aacaaatcaa gtcgcctgcc ctggcgacac 15060
tttcgaagga ctggagtggg aatcagagct tcacgggtta aaaagccgat gtcacatcgg 15120
ccgttcgaaa ctctctctct tgcagtgagg tgaagacatt tgaaaatcac ccactgcaa 15180
actctcccc ctgctagaaa cctcacattg aaatgctgta aatgacgtgg gccccgagtg 15240
caatcgcggg aagccagggt ttccagctag gacacagcag gtcgtgatcc gggtcgggac 15300
actgcctggc agaggctgcg agc atg ggg ccc tgg ggc tgg aaa ttg cgc 15350

met gly pro trp gly trp lys leu arg

-21 -20

-15

tgg acc gtc gcc ttg ctc ctc gcc gcg gcg ggg act gca g gtaaggcttg 15400
trp thr val ala leu leu leu ala ala ala gly thr ala v

-10

-5

-1 1

ctccaggcgc cagaataggt tgagagggag cccccggggg gcccttgga atttattttt 15460

ttgggtacaa ataatcactc catccctggg agacttgtgg ggtaatggca cggggtcctt 15520
cccaaacggc tggagggggc gctggagggg ggcgctgagg ggagcgcgag ggtcgggagg 15580
agtctgaggg atttaaggga aacggggcac cgctgtcccc caagtctcca cagggtgagg 15640
gaccgcatct tctttgagac ggagtctagc tctgtcgccc aggatggagt gcagtggcac 15700

1. They should only 1 space between the group of nucleotides
2. Separate the codons into 3 with all spaces between each codon.
3. Initial letter of Amino Acid should be in uppercase.
4. Mis-aligned amino acid numbering, Please do not use tabs between the amino acid.

This is the sample of the errors shown, please check for similar errors
in subsequent sequences

Application No: 10542937 Version No: 1.0

Input Set:

Output Set:

Started: 2008-10-03 16:29:26.404
Finished: 2008-10-03 16:29:48.830
Elapsed: 0 hr(s) 0 min(s) 22 sec(s) 426 ms
Total Warnings: 425
Total Errors: 1460
No. of SeqIDs Defined: 259
Actual SeqID Count: 238

Error code	Error Description
E 248	Order Sequence Error <160> -> <150>; Expected Mandatory Tag: <210> in Header
E 287	Invalid WIPO ST.2 date format; Use (YYYY-MM-DD) in <151>
E 287	Invalid WIPO ST.2 date format; Use (YYYY-MM-DD) in <151>
E 202	Invalid input format; Value must be an integer in <210> in SEQID
E 202	Invalid input format; Value must be an integer in <211> in SEQ ID
E 310	Invalid sequence type in <212> in SEQID: (0)
W 402	Undefined organism found in <213> in SEQ ID (0)
E 201	Mandatory field data missing in <400> SEQID: (0)
E 259	Found undefined lettercode; POS (281) SEQID(0)
E 259	Found undefined lettercode; POS (8762) SEQID(0)
E 259	Found undefined lettercode; POS (8773) SEQID(0)
E 259	Found undefined lettercode; POS (8794) SEQID(0)
E 259	Found undefined lettercode; POS (8805) SEQID(0)
E 259	Found undefined lettercode; POS (8816) SEQID(0)
E 259	Found undefined lettercode; POS (8827) SEQID(0)
E 259	Found undefined lettercode; POS (8838) SEQID(0)
E 259	Found undefined lettercode; POS (8849) SEQID(0)
E 259	Found undefined lettercode; POS (8860) SEQID(0)
E 259	Found undefined lettercode; POS (8871) SEQID(0)

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Error code	Error Description
W 333	tabs used in amino acid numbering SEQID (0)
W 333	tabs used in amino acid numbering SEQID (0)
W 333	tabs used in amino acid numbering SEQID (0)
E 342	'n' position not defined found at POS: 26149 SEQID(0)
E 342	'n' position not defined found at POS: 26158 SEQID(0)
E 342	'n' position not defined found at POS: 26164 SEQID(0)
W 333	tabs used in amino acid numbering SEQID (0)
E 342	'n' position not defined found at POS: 26266 SEQID(0)
E 342	'n' position not defined found at POS: 26287 SEQID(0)
W 333	tabs used in amino acid numbering SEQID (0)
E 323	Invalid/missing amino acid numbering SEQID (0) POS (1)
E 342	'n' position not defined found at POS: 28723 SEQID(0)
W 333	tabs used in amino acid numbering SEQID (0)
E 342	'n' position not defined found at POS: 28786 SEQID(0)
E 342	'n' position not defined found at POS: 28807 SEQID(0)
W 333	tabs used in amino acid numbering SEQID (0)
E 342	'n' position not defined found at POS: 28867 SEQID(0)
E 342	'n' position not defined found at POS: 28882 SEQID(0)
W 333	tabs used in amino acid numbering SEQID (0)
E 342	'n' position not defined found at POS: 31357 SEQID(0)
W 333	tabs used in amino acid numbering SEQID (0)
E 342	'n' position not defined found at POS: 31443 SEQID(0)

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Error code	Error Description
W 333	tabs used in amino acid numbering SEQID (0)
E 323	Invalid/missing amino acid numbering SEQID (0) POS (4)
E 323	Invalid/missing amino acid numbering SEQID (0)at Protein (5)
E 323	Invalid/missing amino acid numbering SEQID (0) POS (9)
E 323	Invalid/missing amino acid numbering SEQID (0)at Protein (10)
E 323	Invalid/missing amino acid numbering SEQID (0) POS (14)
E 323	Invalid/missing amino acid numbering SEQID (0)at Protein (15)
E 342	'n' position not defined found at POS: 31626 SEQID(0)
E 342	'n' position not defined found at POS: 31632 SEQID(0)
E 342	'n' position not defined found at POS: 31653 SEQID(0)
E 323	Invalid/missing amino acid numbering SEQID (0) POS (3)
E 323	Invalid/missing amino acid numbering SEQID (0)at Protein (5)
E 323	Invalid/missing amino acid numbering SEQID (0) POS (8)
E 323	Invalid/missing amino acid numbering SEQID (0)at Protein (10)
E 323	Invalid/missing amino acid numbering SEQID (0) POS (13)
E 323	Invalid/missing amino acid numbering SEQID (0)at Protein (15)
E 342	'n' position not defined found at POS: 31719 SEQID(0)
E 323	Invalid/missing amino acid numbering SEQID (0) POS (2)
E 323	Invalid/missing amino acid numbering SEQID (0)at Protein (5)
E 323	Invalid/missing amino acid numbering SEQID (0) POS (7)
E 323	Invalid/missing amino acid numbering SEQID (0)at Protein (10)
E 323	Invalid/missing amino acid numbering SEQID (0) POS (12)

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E 323	Invalid/missing amino acid numbering SEQID (0)at Protein (15)
E 342	'n' position not defined found at POS: 31806 SEQID(0)
E 342	'n' position not defined found at POS: 31833 SEQID(0)
E 323	Invalid/missing amino acid numbering SEQID (0) POS (1) This error has occurred more than 20 times, will not be displayed
E 342	'n' position not defined found at POS: 32096 SEQID(0)
E 342	'n' position not defined found at POS: 33124 SEQID(0) This error has occurred more than 20 times, will not be displayed
W 333	tabs used in amino acid numbering SEQID (0)
W 333	tabs used in amino acid numbering SEQID (0)
W 333	tabs used in amino acid numbering SEQID (0)
W 333	tabs used in amino acid numbering SEQID (0)
W 333	tabs used in amino acid numbering SEQID (0)
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W 333	tabs used in amino acid numbering SEQID (0)
W 333	tabs used in amino acid numbering SEQID (0)
W 333	tabs used in amino acid numbering SEQID (0)
E 202	Invalid input format; Value must be an integer in <210> in SEQID
E 310	Invalid sequence type in <212> in SEQID: (0)
W 402	Undefined organism found in <213> in SEQ ID (0)
E 257	Invalid sequence data feature in <221> in SEQ ID (0)
E 201	Mandatory field data missing in <400> SEQID: (0)
E 202	Invalid input format; Value must be an integer in <210> in SEQID

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E 257	Invalid sequence data feature in <221> in SEQ ID (0) This error has occurred more than 20 times, will not be displayed
E 259	Found undefined lettercode; POS (22) SEQID(0)
E 259	Found undefined lettercode; POS (23) SEQID(0)
E 259	Found undefined lettercode; POS (24) SEQID(0)
E 259	Found undefined lettercode; POS (25) SEQID(0)
W 112	Upper case found in data; Found at position(25) SeqId(0)
W 112	Upper case found in data; Found at position(26) SeqId(0)
W 112	Upper case found in data; Found at position(27) SeqId(0)
W 112	Upper case found in data; Found at position(28) SeqId(0)
W 112	Upper case found in data; Found at position(29) SeqId(0)
W 112	Upper case found in data; Found at position(30) SeqId(0)
W 112	Upper case found in data; Found at position(31) SeqId(0)
E 259	Found undefined lettercode; POS (33) SEQID(0)
E 259	Found undefined lettercode; POS (34) SEQID(0)
E 259	Found undefined lettercode; POS (21) SEQID(0)
E 259	Found undefined lettercode; POS (22) SEQID(0)
E 259	Found undefined lettercode; POS (23) SEQID(0) This error has occurred more than 20 times, will not be displayed
W 112	Upper case found in data; Found at position(24) SeqId(0)
W 112	Upper case found in data; Found at position(25) SeqId(0)
W 112	Upper case found in data; Found at position(26) SeqId(0)

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W 112	Upper case found in data; Found at position(29) SeqId(0)
W 112	Upper case found in data; Found at position(30) SeqId(0)
W 112	Upper case found in data; Found at position(24) SeqId(0)
W 112	Upper case found in data; Found at position(25) SeqId(0)
W 112	Upper case found in data; Found at position(26) SeqId(0)
W 112	Upper case found in data; Found at position(27) SeqId(0)
W 112	Upper case found in data; Found at position(28) SeqId(0)
W 112	Upper case found in data; Found at position(29) SeqId(0) This error has occurred more than 20 times, will not be displayed
E 252	Calc# of Seq. differs from actual; 259 seqIds defined; count=238
E 250	Structural Validation Error; Sequence listing may not be indexable

SEQUENCE LISTING

<110> Mata Lopez, Pedro
 Mozas Alonso, Pilar
 Pocovi Mieras, Miguel
 Tejedor Hernandez, Diego
 Mallen Perez, Miguel
 Alonso Karlezi, Alberto
 Reyes Leal, Gilbert
 Castillo Fernandez, Sergio
 Martinez Martinez, Antonio

<120> Device a method for detecting low density lipoprotein receptor gene mutations associated with familial hypercholesterolemia

<130> U 015859-4

<140> 10/542,937

<141> 2005-07-21

<160> 259

<150> ES200300206

<151> 28.01.03

<150> ES200302671

<151> 17.11.03

<210> SEQ ID NO.: 1

<211> 60.000

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<213> human

<220>

<221> gene

<223> rLDL

<400>

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aaggtttttt taatttaaaa aggaaagaaa aggagagtg cgtgtggca ggcacctagc 1620

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